

Amendments to the Specification

Please insert at page 26, line 10 of the specification as filed, after the heading Brief Description of the Drawings and before the first paragraph in that section, the following paragraph:

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

Please replace the first full paragraph on page 43 of the application as filed with the following, amended paragraph:

In an alternative embodiment, different PETs may be linked together in a single, longer immunogen for administration to an animal. The linker sequence can be flexible linkers such as GS, GSSSS SEQ ID NO. 615) or repeats thereof (such as three-peats).

Please replace the Table titled "Commercial Anti-PET Antibodies" bridging pages 43-44 of the application as filed with the following, amended Table. Please note that only the SEQ ID NOs have been added to this Table. The underlined portions of the sequences in this Table appear underlined in the application as filed.

Commercial Anti-PET Antibodies

Protein	PTP (Immunogen/PET underlined)	Nearest Neighbors
Anti-Cyclin F	TASPT <u>TSSVDGGL</u> GALP.K (SEQ ID NO. 616)	SASIDGGL (SEQ ID NO. 617); SSSSDGGL (SEQ ID NO. 618); TGSVDGGA (SEQ ID NO. 619); ESSSDGGL (SEQ ID NO. 620)
Anti-phospho SHC (Tyr239)	FAGMPITLTVST <u>SSLNLMA</u> ADCK (SEQ ID NO. 621)	ISTASLNL (SEQ ID NO. 622); ISTSSLNV (SEQ ID NO. 623); VSLSSLNL (SEQ ID NO. 624); MDTSSLNL (SEQ ID NO. 625)
Anti-phospho- PP2A (Tyr307)	EEE <u>ADINQLTE</u> EFF.K (SEQ ID NO. 626)	ADLNQLTQ (SEQ ID NO. 627); RDINQLSE (SEQ ID NO. 628); ADFNQLAE (SEQ ID NO. 629); ADINMVTE (SEQ ID NO. 630)
Anti-Cdk8	AT <u>SQQPPQYSHQ</u> THR (SEQ ID NO. 631)	QEPPQYSH (SEQ ID NO. 632); QQQPQFSH (SEQ ID NO. 633); QQPPQHSH (SEQ ID NO. 634); QQPPQQQH (SEQ ID NO. 635);

Please replace the Table bridging pages 104-105 of the application as filed with the following, amended Table:

Protein Kinase	Recognition Motifs ^a	Phosphorylation Sites ^b	Protein Substrate (reference)
cAMP-dependent Protein Kinase (PKA, cAPK)	R-X-S/T ^c R-R/K-X-S/T	Y ₇ LRRASLAQLT (SEQ ID NO. 636) F ₁ RRLSIST (SEQ ID NO. 637) A ₂₉ GARRKASGPP (SEQ ID NO. 638)	pyruvate kinase (2) phosphorylase kinase, a chain (2) histone H1, bovine (2)
Casein Kinase I (CKI, CK-1)	S(P)-X-X-S/T	R ₄ TL S(P)VSSLPGL (SEQ ID NO. 639) D ₄₃ IGS(p)ES(p)TEDQ (SEQ ID NO. 640)	glycogen synthase, rabbit muscle (4) a ₅₁ -casein (4)
Casein Kinase II (CKII, CK-2)	S/T-X-X-E	A ₇₂ DSESEDEED (SEQ ID NO. 641) L ₃₇ ESEEGVPST (SEQ ID NO. 642) E ₂₆ DNSEDEISNL (SEQ ID NO. 643)	PKA regulatory subunit, R _{II} (2) p34 ^{cdc2} , human (5) acetyl-CoA carboxylase (2)
Glycogen Synthase Kinase 3 (GSK-3)	S-X-X-X-S(p)	S ₆₄₁ VPPSPSL S(p) (SEQ ID NO. 644) S ₆₄₁ VPPS(p)PSLS(p) (SEQ ID NO. 645)	glycogen synthase, human (site 3b) (6,2) glycogen synthase, human (site 3a) (6,2)
Cdc2 Protein Kinase	S/T-P-X-R/K ^c	P ₁₃ AKTPVK (SEQ ID NO. 646) H ₁₂₂ STPPKKRK (SEQ ID NO. 647)	histone H1, calf thymus (2) large T antigen (2)
Calmodulin-dependent Protein Kinase II (CaMK II)	R-X-X-S/T R-X-X-S/T-V	N ₂ YLRRRLSDSN (SEQ ID NO. 648) K ₁₉₁ MARVFSVLR	synapsin (site 1) (2) calcineurin (2)

		(SEQ ID NO. 649)	
Mitogen-activated Protein Kinase (Extracellular Signal-regulated Kinase) (MAPK, Erk)	P-X-S/T-P ^d X-X-S/T-P	P ₂₄₄ LSP (SEQ ID NO. 650) P ₉₂ SSP (SEQ ID NO. 651) V ₄₂₀ LSP (SEQ ID NO. 652)	c-Jun (7) cyclin B (7) Elk-1 (7)
cGMP-dependent Protein Kinase (cGPK)	R/K-X-S/T R/K- X -X-S/T	G ₂₆ KKRKRSRKES (SEQ ID NO. 653) F ₁ RRLSIST (SEQ ID NO. 654)	histone H2B (2) phosphorylase kinase (a chain) (2)
Phosphorylase Kinase (PhK)	K/R-X-X-S-V/I	D ₆ QEKRKQISVRG (SEQ ID NO. 655) P ₁ LSRTL SVSS (SEQ ID NO. 656)	phosphorylase (2) glycogen synthase (site 2) (2)
Protein Kinase C (PKC)	S/T-X-K/R K/R- X -X-S/T K/R-X-S/T	H ₅₉₄ EGTHSTKR (SEQ ID NO. 657) P ₁ LSRTL SVSS (SEQ ID NO. 658) Q ₄ KRPSQRSKYL (SEQ ID NO. 659)	fibrinogen (2) glycogen synthase (site 2) (2) myelin basic protein (2)
Abl Tyrosine Kinase	I/V/L-Y-X-X-P/F ^e		
Epidermal Growth Factor Receptor Kinase (EGF-RK)	E/D-Y-X E/D-Y-I/L/V	R ₁₁₆₈ ENAEYLRVAP (SEQ ID NO. 660) A ₇₆₇ EPDYGALYE (SEQ ID NO. 661)	autophosphorylation (2) phospholipase C-g(2)

Single-letter Amino Acid Code:

A = alanine, C = cysteine, D = aspartic acid, E = glutamic acid, F = phenylalanine, G = glycine, H = histidine, I = isoleucine, K = lysine, L = leucine, M = methionine, N = asparagine, P = proline, Q = glutamine, R = arginine, S = serine, T = threonine, W = tryptophan, V = valine, Y = tyrosine, X = any amino acid

Recognition motifs are taken from Pearson and Kemp (*supra*) except where noted. Consult Pearson and Kemp for a comprehensive list of phosphorylation site sequences and specificity motifs.

^b Subscripted numbers refer to the position of the first residue within the given polypeptide chain.

^c From (1).

^d From (7).

^eFrom (8). See refs (8) and (9) for discussion of substrate recognition by Abl.

Please replace the Table SARS appearing on pages 128-145 of the application as filed with the following, amended Table SARS:

Table SARS List of SARS virus-specific PETs

>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	ISLCSCIC (SEQ ID NO. 663)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	SLCSCICT (SEQ ID NO. 664)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	LCSCICTV (SEQ ID NO. 665)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	CSCICTVV (SEQ ID NO. 666)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	SCICTVVQ (SEQ ID NO. 667)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	CICTVVQR (SEQ ID NO. 668)
>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	ICTVVQRC (SEQ ID NO. 669)
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>gi 30795153 gb AAP41045.1	Orf10 [SARS coronavirus Tor2]	EDPCCKVQH (SEQ ID NO. 674)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	MNELTLID (SEQ ID NO. 675)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	NELTLIDF (SEQ ID NO. 676)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	ELTLIDFY (SEQ ID NO. 677)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	TLIDFYLY (SEQ ID NO. 678)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	TLIDFYLC (SEQ ID NO. 679)
>gi 32187352 gb AAP72981.1	Orf7b [SARS coronavirus HSR 1]	LIDFYLCF (SEQ ID NO. 680)
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SELDDDEL (SEQ ID NO. 718)
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GEILLLEW ([SEQ ID NO. 774](#))

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FMVFLVLT ([SEQ ID NO. 794](#))
- >gi|31416298|gb|AAP51230.1| envelope protein E [SARS coronavirus GZ01]
MVFLVTL ([SEQ ID NO. 795](#))
- >gi|29836499|ref|NP_828854.1| small envelope protein; protein sM; protein E [SARS coronavirus]
VLLFLAFV ([SEQ ID NO. 796](#))

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LLFLAFVV ([SEQ ID NO. 797](#))
>gi|29836499|ref|NP_828854.1| small envelope protein; protein sM; protein E [SARS coronavirus]
LFLAFVVF ([SEQ ID NO. 798](#))
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FLAFVVFL ([SEQ ID NO. 799](#))
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LAFVVFL ([SEQ ID NO. 800](#))
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AFVVFLV ([SEQ ID NO. 801](#))
>gi|29836499|ref|NP_828854.1| small envelope protein; protein sM; protein E [SARS coronavirus]
FVVLLVT ([SEQ ID NO. 802](#))
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>gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
SSSRRCNS ([SEQ ID NO. 1141](#))
>gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
SRSRCSR ([SEQ ID NO. 1142](#))
>gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
RSRCSRNS ([SEQ ID NO. 1143](#))
>gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
SRCNSRNS ([SEQ ID NO. 1144](#))
>gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
RCNSRNST ([SEQ ID NO. 1145](#))

- >gi|30421455|gb|AAP30714.1| putative nucleocapsid protein [SARS coronavirus CUHK-Su10]
CNSRNSTP ([SEQ ID NO. 1146](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
PQGLPNNI ([SEQ ID NO. 1147](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
QGLPNNIA ([SEQ ID NO. 1148](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
GLPNNIAS ([SEQ ID NO. 1149](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
LPNNIASW ([SEQ ID NO. 1150](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
PNNIASWF ([SEQ ID NO. 1151](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
NNIASWFT ([SEQ ID NO. 1152](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
NIASWFTA ([SEQ ID NO. 1153](#))
- >gi|31540949|gb|AAP49024.1| nucleocapsid protein [SARS coronavirus]
IASWFTAL ([SEQ ID NO. 1154](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
HTSPDVDF ([SEQ ID NO. 1155](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
TSPDVDFG ([SEQ ID NO. 1156](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
SPDVDFGD ([SEQ ID NO. 1157](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
PDVDFGDI ([SEQ ID NO. 1158](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
DVDFGDIS ([SEQ ID NO. 1159](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
VDFGDISG ([SEQ ID NO. 1160](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
DFGDISGI ([SEQ ID NO. 1161](#))
- >gi|31581505|gb|AAP33697.1| spike protein S [SARS coronavirus Frankfurt 1]
FGDISGIN ([SEQ ID NO. 1162](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
RAILTAFL ([SEQ ID NO. 1163](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
AILTAFLP ([SEQ ID NO. 1164](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
ILTAFLPA ([SEQ ID NO. 1165](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LTAFLPAQ ([SEQ ID NO. 1166](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
TAFLPAQD ([SEQ ID NO. 1167](#))
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]

AFLPAQDT (SEQ ID NO. 1168)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
FLPAQDTW (SEQ ID NO. 1169)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LPAQDTWG (SEQ ID NO. 1170)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
NFRVVPSPR (SEQ ID NO. 1171)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
FRVVPSPRD (SEQ ID NO. 1172)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
RVVPSRDV (SEQ ID NO. 1173)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VVPSRDVV (SEQ ID NO. 1174)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VPSRDVVR (SEQ ID NO. 1175)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
PSRDVVRF (SEQ ID NO. 1176)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
SRDVVRFP (SEQ ID NO. 1177)
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RDVVRFPN (SEQ ID NO. 1178)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VYAWERKR (SEQ ID NO. 1179)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
YAWERKRI (SEQ ID NO. 1180)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
AWERKRIS (SEQ ID NO. 1181)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
WERKRISN (SEQ ID NO. 1182)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
ERKRISNC (SEQ ID NO. 1183)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
RKRISNCV (SEQ ID NO. 1184)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
KRISNCVA (SEQ ID NO. 1185)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
RISNCVAD (SEQ ID NO. 1186)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
YRVVVLSY (SEQ ID NO. 1187)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
RVVVLSYE (SEQ ID NO. 1188)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VVVLSYEL (SEQ ID NO. 1189)
>gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VVVLSYELL (SEQ ID NO. 1190)

- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
VLSYELLN (SEQ ID NO. 1191)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LSYELLNA (SEQ ID NO. 1192)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
SYELLNAP (SEQ ID NO. 1193)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
YELLNAPA (SEQ ID NO. 1194)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
YKTPTLKD (SEQ ID NO. 1195)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
KTPTLKDF (SEQ ID NO. 1196)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
TPTLKDFG (SEQ ID NO. 1197)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
PTLKDFGG (SEQ ID NO. 1198)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
TLKDFGGF (SEQ ID NO. 1199)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LKDFGGFN (SEQ ID NO. 1200)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
KDFGGFNF (SEQ ID NO. 1201)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
DFGGFNFS (SEQ ID NO. 1202)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
ILPDPLKS (SEQ ID NO. 1203)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LPDPLKST (SEQ ID NO. 1204)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
PDPLKSTK (SEQ ID NO. 1205)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
DPLKSTKR (SEQ ID NO. 1206)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
PLKSTKRS (SEQ ID NO. 1207)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
LKSTKRSF (SEQ ID NO. 1208)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
KSTKRSEI (SEQ ID NO. 1209)
- >gi|31416295|gb|AAP51227.1| spike glycoprotein S [SARS coronavirus GZ01]
STKRSEIE (SEQ ID NO. 1210)
- >gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
ILDISPCA (SEQ ID NO. 1211)
- >gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
LDISPCAF (SEQ ID NO. 1212)
- >gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]

- DISPCAFG (SEQ ID NO. 1213)
>gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
ISPCAFGG (SEQ ID NO. 1214)
>gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
SPCAFGGV (SEQ ID NO. 1215)
>gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
PCAFGGVS (SEQ ID NO. 1216)
>gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
CAFGGVSV (SEQ ID NO. 1217)
>gi|30795145|gb|AAP41037.1| spike glycoprotein [SARS coronavirus Tor2]
AFGGVSVI (SEQ ID NO. 1218)
>gi|30023954|gb|AAP13567.1| putative E2 glycoprotein precursor [SARS coronavirus CUHK-W1]
AFSPAQDT (SEQ ID NO. 1219)
>gi|30023954|gb|AAP13567.1| putative E2 glycoprotein precursor [SARS coronavirus CUHK-W1]
FSPAQDTW (SEQ ID NO. 1220)
>gi|30023954|gb|AAP13567.1| putative E2 glycoprotein precursor [SARS coronavirus CUHK-W1]
SPAQDTWG (SEQ ID NO. 1221)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
DALCEKAS (SEQ ID NO. 1222)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
ALCEKASK (SEQ ID NO. 1223)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
LCEKASKY (SEQ ID NO. 1224)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
CEKASKYL (SEQ ID NO. 1225)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
EKASKYLP (SEQ ID NO. 1226)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] KASKYLP (SEQ ID NO. 1227)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] ASKYLPID (SEQ ID NO. 1228)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] SKYLPIDK (SEQ ID NO. 1229)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] SVIDLLN (SEQ ID NO. 1230)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] LLNDFVE (SEQ ID NO. 1231)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] LLNDFVEI (SEQ ID NO. 1232)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] LNDFVEII (SEQ ID NO. 1233)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01] NDFVEIJK (SEQ ID NO. 1234)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
LVDSLDNE (SEQ ID NO. 1235)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
VDSLDNEF (SEQ ID NO. 1236)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
DSLDNEFV (SEQ ID NO. 1237)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
SDLNEFVS (SEQ ID NO. 1238)
>gi|31416293|gb|AAP51225.1| orf1ab [SARS coronavirus GZ01]
DLNEFVSD (SEQ ID NO. 1239)

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01]
LNEFVSDA ([SEQ ID NO. 1240](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01]
NEFVSDAD ([SEQ ID NO. 1241](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] EFVSDADS ([SEQ ID NO. 1242](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01]
ANYIFWRK ([SEQ ID NO. 1243](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01]
NYIFWRKT ([SEQ ID NO. 1244](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01]
YIFWRKTN ([SEQ ID NO. 1245](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] IFWRKTNP ([SEQ ID NO. 1246](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] FWRKTNP ([SEQ ID NO. 1247](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] WRKTNPIQ ([SEQ ID NO. 1248](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] RKTNPQIQL ([SEQ ID NO. 1249](#))

>gi|31416293|gb|AAP51225.1|orf1ab [SARS coronavirus GZ01] KTNPIQLS ([SEQ ID NO. 1250](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
SADASTFF ([SEQ ID NO. 1251](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
ADASTFFK ([SEQ ID NO. 1252](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
DASTFFKR ([SEQ ID NO. 1253](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
ASTFFKRV ([SEQ ID NO. 1254](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
STFFKRV ([SEQ ID NO. 1255](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
TFFKRVCG ([SEQ ID NO. 1256](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
FFKRVCGV ([SEQ ID NO. 1257](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
FKRVCGVS ([SEQ ID NO. 1258](#))

>gi|30795144|gb|AAP41036.1|replicase 1AB [SARS coronavirus Tor2]
KRVCGVSA ([SEQ ID NO. 1259](#))

>gi|31581504|gb|AAP33696.1|polyprotein 1ab [SARS coronavirus Frankfurt 1]
ELFYSAI ([SEQ ID NO. 1260](#))

>gi|31581504|gb|AAP33696.1|polyprotein 1ab [SARS coronavirus Frankfurt 1]
LFYSYAIH ([SEQ ID NO. 1261](#))

>gi|31581504|gb|AAP33696.1|polyprotein 1ab [SARS coronavirus Frankfurt 1]
FYSYAIHH ([SEQ ID NO. 1262](#))

>gi|31581504|gb|AAP33696.1|polyprotein 1ab [SARS coronavirus Frankfurt 1]
YSYAIHHD ([SEQ ID NO. 1263](#))

>gi|31581504|gb|AAP33696.1|polyprotein 1ab [SARS coronavirus Frankfurt 1]
SYAIHHDK ([SEQ ID NO. 1264](#))



- >gi|31581504|gb|AAP33696.1| polyprotein 1ab [SARS coronavirus Frankfurt 1]
YAIHHDKF ([SEQ ID NO. 1265](#))
- >gi|31581504|gb|AAP33696.1| polyprotein 1ab [SARS coronavirus Frankfurt 1]
AIHHDKFT ([SEQ ID NO. 1266](#))
- >gi|31581504|gb|AAP33696.1| polyprotein 1ab [SARS coronavirus Frankfurt 1]
IHHDKFTD ([SEQ ID NO. 1267](#))

Please replace the Table bridging pages 146-147 of the application as filed with the following, amended Table. Please note that only the SEQ ID NOs have been added to this Table. The underlined portions of the sequences in this Table appear underlined in the application as filed.

PET	LSEPAELTDAVK (SEQ ID NO. 1280)	AA Differences
- NNP1	DE <u>P</u> VELT <u>S</u> APTGH <u>T</u> FS (SEQ ID NO. 1281)	2
- NNP2	AGEA <u>AE</u> LQDAEV <u>S</u> SAK (SEQ ID NO. 1282)	2
- NNP3	LQEP <u>AE</u> L <u>V</u> ESDGVPK (SEQ ID NO. 1283)	3
- NNP4	AQ <u>PA</u> EL <u>V</u> D <u>S</u> SGW (SEQ ID NO. 1284)	3
- NNP5	GLDPTQ <u>L</u> TDALTQR (SEQ ID NO. 1285)	3
PET	YEVOGEVFTK (SEQ ID NO. 1286)	AA Differences
- NNP1	H <u>V</u> EVNGEVFQK (SEQ ID NO. 1287)	2
- NNP2	SYEVL <u>G</u> EE <u>F</u> FDR (SEQ ID NO. 1288)	2
- NNP3	QY <u>A</u> V <u>S</u> GE <u>I</u> FVVDR (SEQ ID NO. 1289)	3
- NNP4	VYEEQGE <u>I</u> ILK (SEQ ID NO. 1290)	3
- NNP5	LYEVRGE <u>T</u> Y <u>L</u> KLK (SEQ ID NO. 1291)	3

Please replace the Table on page 149 of the application as filed with the following, amended Table. Please note that only the SEQ ID NOs have been added to this Table. The underlined portions of the sequences in this Table appear underlined in the application as filed.

hK1	<u>HSQPWQVAVYSHGWAH</u> CGGVLVHR (SEQ ID NO. 1296)
hK2	IVGGWECEQHS <u>QPWQAALYHFSTFQ</u> CGGILVHK (SEQ ID NO. 1297)
hK3	<u>GSQPWQVSLFNGLSFH</u> CAGVLVDR (SEQ ID NO. 1298)
hK4	<u>NSQPWQVGLFEGTSLR</u> (SEQ ID NO. 1299)
hK5	HECQPHS <u>QPWQAALFQGQOLL</u> CGGVLVGR (SEQ ID NO. 1300)
hK8	EDCSPHS <u>QPWQAALVMENELFC</u> SGVLVHR (SEQ ID NO. 1301)
hK9	VL <u>NTNGTSGFL</u> PGGYTCFPHS <u>QPWQAALLVQGR</u> (SEQ ID NO. 1302)
hK10	L <u>LEGDECA</u> PHS <u>QPWQ</u> VALYER (SEQ ID NO. 1303)
hK11	PNS <u>QPWQAGLFHLTR</u> (SEQ ID NO. 1304)
hK6	CVTAGTSCLS <u>SGWGSTSSPOLR</u> (SEQ ID NO. 1305)
hK7	VMDLPT <u>QEPALGTT</u> CYAS <u>CGWGS</u> IEPEEFLTPK (SEQ ID NO. 1306)

Please replace the first full paragraph on page 150 of the application as filed with the following, amended paragraph. Please note that only the SEQ ID NOs have been added to this paragraph. The underlined portions of the sequences in this paragraph appear underlined in the application as filed.

In addition, the same approach may be used to detect the presence of alternative splicing isoforms of any protein. For example, there are three alternative splicing forms of hK15 (* represents trypsin digestion sites):

hK15-V1 R*LNPQVR*PAVLPTR*CPHPGEACVVSGWGLVSHEPGTAGSPR*SQG (SEQ ID NO. 1307)

hK15-V2 R*LNPQ (SEQ ID NO. 1308)-----

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hK15-V3 R*LNPQDGGGLVCGGILQGIVSWGDVPCDNTTK*PGVYTK (SEQ ID NO. 1309)